CURRICULUM VITAE

DEAN A. HENDRICKSON

https://sites.cns.utexas.edu/hendricksonlab

The University of Texas at Austin, Department of Integrative Biology
Biodiversity Center, Texas Natural History Collections
10100 Burnet Road, Bldg. 176 / R4000
Austin, Texas 78758-4445

deanhend@austin.utexas.edu

Voice: (512) 471-9774

Education	Research	Employment	Other Appointments
Teaching	Professional Memberships	Professional Service	Grants/Contracts
Publications	Published abstracts	Other Presentations	Web publishing
Languages/Skills/Hobbies	Foreign Travel	Outreach	References

EDUCATION

Ph.D. Zoology, May, 1987, Arizona State University - "Geographic Variation in Morphology of *Agosia chrysogaster*, a Sonoran Desert Cyprinid Fish". Examined mensural and meristic characters to assess multidimensional body shape variations and allometric growth relationships relative to ecological factors within and among populations throughout the species' geographic range (Sinaloa, México - Arizona). Two allopatric "morphotypes" were found to differ in body shape and in nature of sexual dimorphism. (Major Advisor: W. L. Minckley)

M.Sc. Applied Hydrobiology, 1977, University of London, London, England - "Feeding Ecology of Carp Fry in an Extensive Culture System." Described and contrasted food availability, preference and growth and mortality of carp larvae and fry among environments with varied prey availabilities in an extensive fish culture operation. (Major advisor: W. P. Williams, Chelsea College)

B.S. Fisheries/Wildlife Management, 1973, Arizona State University (ASU), Tempe, Arizona

RESEARCH – PAST, PRESENT AND FUTURE

My research focuses on ecology, evolution and conservation of aquatic biota (primarily fishes) and their habitats. Since much of what I do is heavily dependent on the valuable specimens and other resources archived in Natural History Museums, I have not only utilized collections but have also worked to make those resources more accessible and apply them in other disciplines, such as ecology, where they have been historically underutilized. Geographically, I have worked primarily in northern México and the southwestern U.S., but I have also published on fishes, plants, invertebrates, amphibians, and other biota of Central America, southern Mexico and the U.S. Pacific Northwest. By the time I finished my Ph.D. I had become deeply invested in promoting study of ecological interactions of native and exotic aquatic biota of the amazingly diverse and highly endemic Cuatro Ciénegas Protected Area (Coahuila, México), as well as in facilitating research on diverse conservation-related issues there. Trophic polymorphism of the Cuatro Ciénegas cichlid, *Herichthys minckleyi*, initially attracted me to the area, but I have also worked on the valley's plants (invasive *Arundo donax*) and turtles (*Terrapene coahuila*). Along the way I organized many professional meetings in Cuatro Ciénegas and founded a local research station to help facilitate conservation-related work of others. North American catfishes have also long attracted my attention and I will continue studies of evolution, biogeography and ecology of regional species,with special effort focused on blind cave catfishes,.following up on my work on the genus *Prietella* of northeastern México, and hopefully fulfilling my long-term yearning to work on the amazing (and amazingly difficult to capture) catfishes, *Trogloglanis pattersoni* and *Satan eurystomus*, from the deep Edwards Aquifer under the city of San Antonio, Texas. There's also a surface catfish of the genus *Ictalurus* in Texas and México remaining undescribed and desperately in need of conservation action, and I hope to explore it and continue work on the closely related, severely endangered Yaqui Catfish. Though study of them is complicated by extensive hybridization, I hope to move their conservation forward. Elsewhere in México, colleagues and I discovered and described a new catfish family from Chiapas, México and I continue collaborating with the binational Truchas Mexicanas team that I

founded in the late 1990s to survey, describe and conserve what has turned out to be as many as 10 new species of trout from northwest México. Another new species description long in the works is that of a cyprinid from NW Mexico and southeastern Arizona. Since moving to University of Texas in 1990, however, my focus has steadily shifted to the fishes of all Texas river basins (and their headwaters in adjacent states including México), culminating in my Fishes of Texas Project and applications of the data it serves for addressing questions relevant to ecology and conservation. The near future will undoubtedly see much of my energy dedicated to continuing to improve that database and website, and further expanding it in diverse ways to explore aquatic ecology and better serve conservation research and management. I hope to expand Fishes of Texas Project and its intensive data cleaning and processing beyond ichthyology to other aquatic organismal groups and beyond Texas to cover the complete watersheds of all rivers that intersect the state. A Herps of Texas database/website using the Fishes of Texas template is already in development, and I am proposing expansion to freshwater mussels, which with their tight ecological linkage to fishes and dire conservation situation, are clearly a high priority for such an endeavor. I would also like to link eventually to the rich archeological museum-based data for both mussels and fishes to better inform long-term ecological studies and conservation in the face of climate change. Finally, I have begun work toward including photo-vouchered occurrence records contributed by citizen scientists (but curated by professionals) into such databases - see our iNaturalist Fishes of Texas Project. I have always collaborated broadly across cultures and disciplines, and relied heavily on cutting edge internet technologies, and that will continue to characterize all of my future endeavors.

EMPLOYMENT AND OTHER APPOINTMENTS

September 1990 - present: Curator of Ichthyology, Texas Natural History Collections, Department of Integrative Biology, University of Texas, Austin, TX – Responsible for curation of an alcoholic collection of approximately 73,056 cataloged lots of fishes (Texas Natural History Collection (TNHC)), collection growth (from about 18,000 cataloged lots when I started) and related research. I maintain a computerized catalog of collection and loan records that has been fully searchable on the Internet since 1993 (first fish collection to be fully searchable online). All TNHC Fish data (including for our rapidly growing tissue collection) are currently accessible via GBIF, VertNet, Fishnet2, and iDigBio.org, as well as via our own www.fishesoftexas.org web database, with this last sharing also our large collection of related digital field notes and image files. Our GBIF data are automatically updated weekly via our IPT, and our entire collection database (all fields) is accessible via our own Specify Portal (and Specify 7) – more details at the collection website (https://biodiversity.utexas.edu/collections). I supervise the Collection Manager and various collections assistants (currently 4 paid staff, 2 paid students, 6 volunteers). This position also requires research (satisfied as described above), but unfortunately does not include teaching or supervision of students, a long-standing interest of mine that has been possible to fulfill to some extent through ancillary appointments.

January 1993 – present: Teaching and Graduate Faculty (Ecology & Evolutionary Biology), Department of Integrative Biology (formerly Zoology), School of Biological Sciences, University of Texas at Austin

October 2001 – May 2004: Associate Director, Environmental Science Institute, University of Texas at Austin (http://www.esi.utexas.edu/)

April 1986 - August 1990: Native Fish Research Biologist, Nongame and Research Branches, Arizona Game and Fish Department (AGFD). Responsible for design, administration and execution of all the state's research, endangered species reintroduction and management programs dealing with native endangered fishes and their habitats statewide. Duties included design and implementation of large-scale reintroduction/monitoring programs for endangered Colorado River squawfish, razorback sucker, Gila topminnow and desert pupfish, as well as conservation status surveys for certain species and geographic areas. I developed statewide management plans, assisted in expansion and maintenance of the state's Heritage data base system, and participated in a diversity of inter-agency fisheries management committees and teams. Research emphases included experimental studies of dispersal and habitat preference of stocked squawfish and razorback suckers, intraspecific taxonomic investigations in native cyprinids, population estimates of humpback chub, and habitat relationships of predominately native, stream fish communities in Arizona and México and their interactions with non-native species. Supervised 4 full-time assistants and 1 or 2 summer, seasonal, full-time employees.

Autumn 1982 - Fall 1985: Self-employed, sub-contracted consultant to U.S. Bureau of Reclamation. Responsible for fisheries studies relevant to potential impacts of proposed dams on the Gila and San Francisco rivers, Arizona and New Mexico.

Autumn 1980 - Summer 1984: Teaching Assistant, ASU. Taught laboratory sections of Ichthyology, Fisheries Management, Human Anatomy and Physiology (3 semesters each), and General Biology (2 semesters).

Autumn 1980 - Autumn 1983: Curator, Collection of Fishes, ASU. Responsible for collection maintenance, specimen

acquisition, cataloging and loan processing.

Summer 1981: Research Assistant, ASU. "Biochemical Systematics of the genus *Gila* (Cyprinidae)." Examination of relationships within this fish genus based on starch gel electrophoresis in conjunction with morphological analyses. Responsible for fieldwork in México and US, funded by U. S. Fish and Wildlife Service (USFWS), Endangered Species Office, Albuquerque, New Mexico.

Summer 1980: Research Assistant, ASU. "Ciénegas - Endangered Southwestern Aquatic Climax Communities." Definition and description of ciénega community, documentation of historic and present distributions and conservation status of this habitat type in Arizona, with management recommendations. USFWS.

Spring - Summer 1979: Research Assistant, ASU. "Influence of Pumped - Storage and Generation on Commercial Fisheries Potential of Reservoirs." Sampling of fishes for dietary analysis and assessment of impacts from pumped-storage operations. Funded by U. S. Bureau of Commercial Fisheries through AGFD.

Summer 1979: Assistant Field Biologist, U.S. Forest Service (USFS), Rocky Mountain Forest and Range Experiment Station, Tempe, Arizona. Collection of endangered Gila trout (*Salmo gilae*) for taxonomic analyses, habitat assessment and population estimations.

Spring 1978 - Spring 1979: Research Assistant, ASU. "Fishes of the Río Yaqui, northwestern México". Project leader for extensive ichthyofaunal survey of Río Yaqui drainage, Sonora and Chihuahua, México. Funded by USFWS.

Summer 1973 - Autumn 1975: Research Biologist, U. S. Peace Corps, Colombia, South America. Employed by Colombian Department of Natural Resources (INDERENA) and assigned to United Nations Food and Agriculture Organization (FAO) Fisheries Development Program on Río Magdalena. With a Colombian counterpart biologist I was responsible for activities of a remotely situated research station with staff of five technicians. Activities included stock assessment for commercially important species, development of ageing techniques, descriptive life history and ecology studies, collection, maintenance and curation of ichthyofaunal reference collection. I also carried out a limnological monitoring program, experimental cage culture of native catfishes (Pimelodellidae), and fish parasite and disease identification and control in culture systems. My last month was spent in the Dominican Republic conducting a feasibility study for freshwater aquaculture. I reported to the Peace Corps (Colombia and Dominican Republic), INDERENA, FAO, and the Dominican Republic Ministry of Agriculture.

OTHER APPOINTMENTS

Director – 1/2006 – 11/2013 - Centro de Investigación Científica de Cuatrociénegas / Cuatrociénegas Scientific Research Center (http://www.desertfishes.org/cuatroc/estacion/CICCC.php)

Lecturer – 1994-present –Integrative Biology Department – University of Texas, Austin

Graduate Faculty, Ecology and Evolutionary Biology – 1994-present - Section of Integrative Biology – University of Texas, Austin

Adjunct Faculty 2019 - 2020: Oklahoma State University & Texas A&M Corpus Christi

1996 - 2013: Aquatic Biology, Texas State University, San Marcos, Texas

TEACHING

Classroom

University of Texas, School of Biological Sciences

- Ichthyology (Juniors, Seniors and graduate level) - spring 1994 to 2006
- Natural History Museum Science (Junior, Senior and graduate level) - Fall 1998 to 2004 (annually); every other year 2005-2009 (http://www.bio.utexas.edu/courses/bio471g/)
- The Science of Wonder: Natural History Museums (College of Natural Sciences, freshman seminar version of BIO471G) – every other year Fall 2004-2008
- Ecological Research on the Great Barrier Reef [summer Study Abroad Program] – 2008 and 2009
- Undergraduate independent research - 1994 - present - (BIO 371K), Integrative Biology, UT
- Graduate independent research - Fall 1996/7 - Geography, UT

Other Universities

- Ichthyology (BIO4415/5415) - Summer 1996 & 97 - Texas State University, San Marcos
- Seminario-Taller binacional sobre Taxonomía y Biosistemática - Fall 1993 - Guest instructor - Universidad Autónoma de Nuevo León, Monterrey, N.L., México
- Aquatic Ecology & Biodiversity Management - Fall 1993 - Guest instructor - U.S. Bureau of Land Management

Teaching Assistant (TA) at ASU - 1980 - 1984 - Human Anatomy/Physiology (2 semesters) Fisheries Mgmt. (3 semesters), Ichthyology (3 semesters), General Biology (2 semesters); frequent guest or substitute lecturer Fisheries Mgmt. and Ichthyology.

Teaching evaluations

My overall teaching evaluations submitted by students at UT for recent years (available online to UT faculty and students) have averaged: 4.6 – 4.9 (Natural History Museum Science) and 4.0 - 4.5 (Ichthyology), where 1 = unsatisfactory, 4 = very good, and 5 = excellent.

Field teaching

I enjoy teaching Natural History in the field. Ichthyology at UT is officially a "field component" class, with 4 weekend field trips, traditionally including an extended trip to Cuatro Ciénegas, Coahuila, México. The 2 years of teaching the summer course on the Great Barrier Reef involved 3 weeks of intensive daily snorkeling-based research projects on Giant Clams (Tridacnidae) and reef fishes. Since 1999, over 200 undergraduate and graduate students, mostly from UT, but also from various Mexican and other U.S. universities, have participated in my research projects in some capacity. See also Foreign Travel 2008-2009.

Graduate Student supervision (does not include service as committee member)

Laura Dugan – UT Integrative Biology – Ph.D. candidate – 2006-2014 (Camille Parmesan – co-adviser)
Ben Labay – Texas State Univ., Aquatic Biology – M.S. – 2009-2011 (Timothy Bonner, co-adviser)
Jean Krejca – UT Integrative Biology – Ph.D. – 1997-2005 (David Hillis – co-adviser)
Matt Stephens –Texas State Univ., Aquatic Biology – M.S. – 1999-2002 (Tom Arsuffi – co-adviser)
Dawn Johnson – UT Integrative Biology – Ph.D. – 1996-2001 (Mike Ryan – co-advisor)
Adam Cohen – UT Integrative Biology – M.S. – 1998-2001 (Camille Parmesan – co-advisor)

I also serve and have served on committees of numerous other graduate students at UT in Biology (4 Ph.D.), Geology (2 Ph.D.) Geography (2 M.S.) and Education (1 Ph.D.), Information School (1 M.S.) and am a member of the Graduate Faculty in Integrative Biology (1994 – present). I have also served on committees of bachelors and doctoral students at several Mexican universities.

Undergraduate Special Research Project students supervised (UT)

David Perrin – UT Statistics Capstone - 2019
Adam Zambie - UT Jackson School Geosciences - Env Sci – EVS371 – 2019-20
Han Oi - UT Jackson School Geosciences - Env Sci – EVS371 – 2019-20
Colton Avila – UT Geography (Sustainability) Capstone - 2018
Quanit Ali – UT Jackson School Geosciences - Env Sci – EVS371 – 2018-19
Chelsea Jones – UT Jackson School Geosciences - Env Sci – EVS371 – 2016-17
Christina Scanlon – UT Jackson School Geosciences - Env Sci – EVS371) – 2016-17
Andrew Gordon (M.S. Information School) –thesis "The Fluviageny, a method for analyzing temporal river fragmentation using phylogenetics" (https://repositories.lib.utexas.edu/bitstream/handle/2152/32365/GORDON-MASTERSREPORT-2015.pdf)
Connor French – UT Evolution, Ecology and Behavior BIO377– 2014-15
Andrew Gordon - UT Information School – special project - 2014
Sara D'Antonio – UT Information School – M.S. Capstone project – 2011
Jessica Gifford - UT Evolution, Ecology and Behavior BIO377– 2009-10
Gena Esposito - UT Bridging Disciplines Program – 2009
Ann R. Evans - UT Bridging Disciplines Program – 2009
Crystal LeBoeuf - UT Evolution, Ecology and Behavior BIO377 – 2006
Heather Lee - UT Evolution, Ecology and Behavior BIO377 – 2004
Suzanne McGaugh – UT Evolution, Ecology and Behavior BIO377 – 2002
Megan Noel – UT Evolution, Ecology and Behavior BIO377 – 2002
Katrina Cohen - UT Evolution, Ecology and Behavior BIO377 – 2001-2
Cheryl Rosel – UT Evolution, Ecology and Behavior BIO377 - 2000
Francisco "Beto" Martinez – UT Evolution, Ecology and Behavior BIO377 – 2000
Jenny Birnbaum – UT Evolution, Ecology and Behavior BIO377 – 1999-2001
Jessica Dalby – UT Evolution, Ecology and Behavior BIO377 – 1999
Amy George – UT Evolution, Ecology and Behavior BIO377 – 1998
Josh Boyce – UT Evolution, Ecology and Behavior BIO377 – 1997

CURRENT PROFESSIONAL MEMBERSHIPS

American Association for Advancement of Science
American Fisheries Society (AFS) (**Life member**)
Amer.Soc.Ichthyologists&Herpetologists (**Life member**)
Chihuahuan Desert Research Institute (CDRI)
Desert Fishes Council (DFC) (**Life member**)
Ecological Society of America
Society for Conservation Biology
Soc. Ictiológica Mexicana, A.C. (**founding member**)
Texas Academy of Science
Southwestern Association of Naturalists

PROFESSIONAL SERVICE

University of Texas

- 2013 – 2014 – TNHC Entomology Curator search committee member
- 2009 – Fish Biologist hiring committee member – Marine Science Institute, University of Texas at Austin
- 2004 – present – Member – Museum Studies Program Workgroup
- 2002 – 2012 - Bridging Disciplines Program Faculty Panel - Environment
- 2000 – 2004 - Associate Director, Environmental Science Institute
- March 2001 – present, Member, Graduate Studies Committee in Ecology & Evolutionary Biology program, Integrative Biology.
- March 2001 – 2005, Member, Committee to oversee the turtle pond, School of Biology Sciences
- 2000-present - Chair of Edwards Aquifer Working Group for Environmental Science Institute and member Latin American Working Group, Environmental Science Institute
- 1998-- 1999 – Member, Undergraduate and Graduate Curriculum Committees for Ecology and Evolutionary Biology, College of Biological Sciences.
- 1998-2000 (researched and produced proposal for an interdisciplinary Environmental Science Institute that was subsequently funded and inaugurated in Nov. 2000)
- 1998 - Member of faculty hiring search committee for Ecologist/Conservation Biologist. 1998-2000 member of College of Natural Sciences Environmental Science Institute Task Force

Cuatro Ciénegas, Coahuila

My long-standing dedication to the sustainable management and conservation of the amazing biodiversity of this small desert valley led me to found (in 2005) and direct a research station (Centro de Investigación Científica de Cuatro Ciénegas - http://desertfishes.org/cuatroc/estacion/CICCC.php). I have also organized a series of professional meetings there to help facilitate both research and management, and as a side product, to help generate income for the local community. Thanks to the Desert Fishes Council, for sponsoring a large portion of the operating costs of the station and to Mexican collaborators Desuvalle A.C. for providing on-site management services, and The Nature Conservancy México, Pronatura NE, WWF-México, CONANP, CONAHEC and others for sponsoring events:

- **2004** - Primer Congreso de Investigadores de Cuatrociénegas (approx 300 participants) - http://www.desertfishes.org/cuatroc/meeting/junta/2004/index.php
- **2005** - Taller sobre *Arundo / Arundo* workshop 2-6 June 2005 – expert workshop regarding management of this invasive grass (http://www.desertfishes.org/cuatroc/organisms/non-native/arundo/Arundo.html).
- **2005** - 37th Annual meeting of the Desert Fishes Council (DFC) - over 300 participants (http://www.desertfishes.org/dfc/meetings/2005/call.html)
- **2007** - Second meeting of Cuatrociénegas researchers - over 200 participants (http://www.desertfishes.org/cuatroc/meeting/junta/2007/2ndo_congreso.html)
- **2008** – 40th Annual meeting of the Desert Fishes Council (DFC) – over 250 participants (http://desertfishes.org/dfc/meetings/2008/call_2008.html).

American Society of Ichthyologists and Herpetologists (http://www.asih.org) - Local Arrangements Chair - 1993 Annual meeting (attended by >1,300 with > 800 papers presented. Total budget $130,000); Secretary (Jan. 1995-Jan. 1999); Webmaster (Jan. 1995-Jan. 1999); Member, Executive Committee and Board of Governors (1992 - 1996); Other Committees - Time and Place (1991-1995); Ichthyological and Herpetological Collections Committee (1992 - present). Various ad hoc committees.

Chihuahuan Desert Research Institute - Board of Scientists - (1995-present)

Desert Fishes Council (http://desertfishes.org) - President (1994-1996); Executive Committee (1994-2019); Editor of Proceedings (1991-1995; 1998-2019); Chair of Translations Committee (1993-2019); Webmaster (1994-2010); Organizer - Long Term Monitoring Symposium (Annual meeting 1989); Local meeting host – 2005 and 2008, Cuatro Ciénegas, Coahuila, México.

INPescA Investigación Pesquera y Acuícola (journal of Mexican Fisheries Research and Aquaculture) – Comité Editorial (April 2002 – present)

Southwestern Association of Naturalists - International Affairs Committee - (1995-2007)

American Fisheries Society - Endangered Species Committee (1987- present); International Fisheries Section (1991-1995); Bridge to Mexico Committee (1993-1994); Organizer - Mexican Fisheries Symposium at 1991 meeting (invited/funded participation by 25 Mexican biologists); Chair - Committee to produce a directory of Mexican Fisheries Biologists (1991-1992).

US Fish and Wildlife Service Endangered Species Recovery Teams - Memberships - Rio Grande Silvery Minnow (1994-present); Colorado River Fishes (1986-1990); Desert Fishes (1986-1991); Virgin River Fishes (1986-1989); Apache Trout (1986-1989); Rio Grande Fishes Recovery Team (1996-present). Consultant - Desert Fishes Recovery Team (1990-present)

Comité Editorial Ecológica (Centro Ecológico, Hermosillo, Mexico), (1989-2000)

Reviewer - National Science Foundation, Science, Copeia, American Fisheries Society journals, Quarterly Review of Biology, Hydrobiología, Environmental Biology of Fishes, Journal of Fish Biology, Conservation Biology, Reviews in Fish Biology and Fisheries, Systematic Biology, Southwestern Naturalist, Bulletin of the Southern California Academy of Sciences; Great Basin Naturalist, and other professional journals.

GRANTS AND CONTRACTS AWARDED

4/29/2020 - (2 yrs, start dependent on date of UT re-opening research) - $131,209 - Enhancing UT Collections and using Modern Analytical Methods for Novel Insights into Texas' Understudied, Megadiverse and Socioeconomically Important Edwards Aquifer. UT Stengl-Wyer Endowment Program Award.

11/30/2017 - 06/30/2021 - $79,945 - American Eel: Utilizing modern techniques to assess conservation status in Texas **(no cost extension 3/2020 to 6/30/2021)**

02/06/2018 - 12/31/2020 - $229,297 Data Gap Sampling in Texas with Focus on Native Fish Conservation Areas and New Methods for Focal Watershed Sampling Prioritization **(3/2020 - in process of renewal for 3 years)**

04/12/2018 - 12/31/2020 - $280,786 TEXAS NATIVE FISH CONSERVATION NETWORK – prioritized conservation guidance and status assessments for Texas freshwater fishes and their habitats. **(3/2020 - in process of renewal for 3 years)**

8/1/2015 - 7/31/2018 $160,000 Watershed-Based Conservation Planning to Inform Selection and Implementation of a Network of Native Fish Conservation Areas in the Great Plains. Texas Parks and Wildlife and Great Plains Landscape Conservation Cooperative.

9/1/2015 – 8/31/2016 $25,000 Waller Creek Biodiversity & Sustainability: working group and archive. UT Green Fees Program.

9/1/2014 - 8/30/2016 $287,500 Conserving Texas Biodiversity: Status, Trends, and Conservation Planning for Fishes of Greatest Conservation Need (Texas Parks and Wildlife Department / State Wildlife Grant program) – in contracting 6/2/2014

10/01/2013 - 12/30/2014 $110,875 Conservation assessment and mapping products for GPLCC priority fish taxa (Dept. Interior – U.S. Fish and Wildlife Service)

04/05/2013 - 08/31/2013 $50,000 Data Standardization and Georeferencing of the Fishes of Texas Database (continuation of T-27-P) (Texas Parks and Wildlife Department / State Wildlife Grant program)

03/01/2013 - 09/30/2013 $35,000 Expansion of the Native Fish Conservation Area (NFCA) Management Concept to Fishes of Texas. Texas Parks and Wildlife Department

08/01/2012 – 07/31/2015 $48,127 CSBR: Natural History Collections: Georeferencing U.S. Fish Collections: a community-based model for georeferencing natural history collections. U.S. National Science Foundation.

09/01/2012 – 09/01/2013 $19,996 Verification of identifications of Cyprinid specimens from the Colorado River basin. U.S. Fish & Wildlife Service

9/1/2010 – 8/31/2013 $90,640 Data provision and projected impact of climate change on fish biodiversity within the Desert LCC (U.S. Bureau of Reclamation)

9/1/2010 – 8/31/2013 $97,681 Data compilation, distribution models, conservation planning, and status surveys for selected fishes of concern in Texas and region (Texas Parks and Wildlife Department / U.S. Fish and Wildlife Service Section 6 Program)

12/22/2009 – 08/31/2012 $390,012 Data Standardization and Georeferencing of the Fishes of Texas Database (continuation of T-27-P) (Texas Parks and Wildlife Department / State Wildlife Grant program)

6/15/2010 – 11/30/2010 $100,793 Provision and Inventory of Diverse Aquatic Ecosystem-related Resources for the Great Plains Landscape Conservation Cooperative (U.S. Fish and Wildlife Service)

06/01/2009 – 8/31/2010 - $15,915 - Georeferencing and Niche Modeling of the Invasive Exotic Fishes with Emphasis on Suckermouth Catfish (Texas Parks and Wildlife Department / State Wildlife Grant program)

04/04/2008 – 08/31/2010 $146,162 Project to Build a Comprehensive GIS-Based Texas Freshwater Fishes Atlas (TX Commission On Environmental Quality)

01/01/08 – 08/31/08 $4,000 Strengthening the new Centro de Investigación Científica de Cuatrociénegas and its relationship with UT (Univ. TX Lozano Long Inst. Latin American Studies Mellon Faculty Research Grants)

11/01/07 – 11/01/08 $3,000 Capture of W.L. Minckley archive for Centro de Investigación Científica de Cuatrociénegas (Desert Fishes Council)

10/01/06 – 03/30/2010 $56,000 Processing of TNSC Fish Collection backlog (University of Texas Texas Natural Science Center, Seashore Fund)

10/01/06 – 09/30/09 $52,000 Osteological specimen preparation (University of Texas, Texas Natural Science Center, Seashore Fund)

08/24/06 – 11/01/07 $37,900 General fish surveys on selected Texas National Guard property (TX Army Natl. Guard)

06/30/06 – 02/01/2010 Book translation to Spanish - R.R. Miller et al. 2005. Fishes of Mexico. University of Chicago Press (co PI with Juan Jacobo Schmitter, to whom award was made) (to be published by CONABIO)

02/16/06 – 08/31/08 $51,627 Data Standardization and Georeferencing of the Fishes of Texas Database (supplement) (TX Parks & Wildlife Dept.)

01/01/06 – 12/31/06 $2,500 Endangered Rio Salado darter conservation status survey and assessment of habitat restoration potential, Coahuila, México (T&E Foundation)

11/15/05 – 11/15/10 $30,000 Establishment and operation of Centro de Investigación Científica de Cuatrociénegas (Desert Fishes Council)

11/01/05 – 10/31/06 $45,000 (to Pronatura NE) - Control de la planta invasora *Arundo donax*, en Cuatro Ciénegas, un centro de gran biodiversidad de especies endémicas de flora y fauna de Norteamérica (Programa Vida Silvestre Sin Fronteras (SEMARNAT/U.S. Fish and Wildlife))

06/15/04 – 06/30/05 $20,000 First Meeting of Cuatrociénegas Researchers and Publication of its Proceedings (Nature Conservancy)

06/15/04 – 12/31/04 $2,600 Effects of habitat loss on the endangered Coahuilan Box Turtle (Terrapene coahuila): Investigating the Interplay of Range Contraction, Genetics & Phenotypic Asymmetry (Nature Conservancy)

07/20/03 – 08/04/03 $14,900 The Endemic Fishes of Cuatro Cienegas (Mexico) (Earthwatch)

07/01/03 – 06/30/05 $14,500 Importance of Scientific Investigation for the Sustainable Management of a Controversial Protected Natural Area / Capacitacion y divulgacion de la importancia de la investigacion cientifica para el manejo sustentable de una area natural protegida controversial (CONAHEC - Univ Of Arizona)

01/31/03 – 01/30/05 $13,100 Genetic studies of animals of northeastern Mexico related to their evolution, ecology and management (Inst Tecnológico De Ciudad Victoria)

09/01/02 – 08/31/04 $73,735 Biodiversity of Native Mexican Trout (Genus *Oncorhynchus* spp.) and The Impending Treat of Their Demise by The Exotic Rainbow Trout *O. mykiss gairdneri* (Teleostei: Salmonidae) (co-PI with Dr. Richard Mayden, St. Louis Univ.) (National Science Foundation)

07/01/02 – 09/30/02 $13,400 The Endemic Fishes of Cuatro Cienegas (Mexico) (Earthwatch)

04/15/02 – 09/15/03 $7,979 Discovery and description of new family of fishes from Chiapas, Mexico (Amer. Assoc Advancement Science Women in Science Program)

06/01/01 – 10/31/01 $13,400 Evolution and Conservation of the Endemic Fishes of Cuatro Cienegas Natural Protected Area (Earthwatch)

06/01/00 – 09/30/00 $13,296 Evolution and Conservation of the Endangered, Endemic Fishes of Cuatro Cienegas Natural Protected Area, Coahuila, Mexico (Earthwatch)

04/15/99 – 10/15/02 $128,773 Biological Invasions and Water Extraction - Top Down and Bottom Up Threats to Conservation in Desert Spring Ecosystems (Nature Conservancy)

01/01/99 – 12/31/00 $6,000 Estructura genética de los bagres ciegos mexicanos en peligro de extinción. Una metodología para evaluar impacto ambiental en acuíferos fronterizos (CosNET (proyecto 960.99-P) - Dirección General de Institutos Tecnológicos, México)

11/12/98 – 11/11/99 $12,200 Evolution and Conservation of the Endangered, Endemic Fishes of Cuatro Cienegas Natural Protected Area, Coahuila, Mexico (Earthwatch)

09/01/98 – 05/31/99 $10,000 Fishes of Texas Project CD-ROM (College of Natural Sciences, Univ. Texas Austin)

09/01/98 – 05/31/99 $10,000 Fishes of Texas Project - Museum specimens database, photography, interactive key, exhibit (in part) (Texas Memorial Museum, Univ. Texas Austin)

09/27/96 – 12/31/96 $500 Additions to Cuatro Cienegas Web Pages (Nature Conservancy)

05/01/95 – 06/30/98 $57,978 Endangered Mexican Blindcat Phylogeny - Hydrology and International Impact Assessment (U S/Mexico Foundation For Science)

03/01/94 – 04/30/94 $4,500 Collection of blind catfish and cave snails from caves of northeastern Mexico (with Dr. Robert Hershler, Smithsonian Inst.) (Smithsonian Research Opportunities fund)

03/01/92 – 02/28/94 $36,300 Preliminary study of the utility of data obtainable from otoliths to management of humpback chub. Analysis of daily growth increment patterns and micro-chemical analysis of otoliths of this endangered fish from the Grand Canyon to test hypotheses regarding history of individuals' growth and movements among chemically and thermally discrete habitats (Arizona Game and Fish Department)

10/09/91 – 09/30/94 $74,355 Arizona and Mexico Collecting for the Gila Taxonomy Project (U.S. Bureau of Reclamation)

08/31/91 – 12/31/91 $700 Collection of blind catfishes in northeastern Mexico (Binational Committee for Wildlife - United States Fish and Wildlife Service and SEDESOL (Mexico))

05/31/92 – 08/31/92 $2,713 Ichthyofaunal Inventory and molecular systematics of fishes of the Cuatro Ciénegas basin, Coahuila, México (Mellon Foundation funds through Institute of Latin American Studies, University of Texas at Austin)

01/01/86 – 08/31/90 $720,000 Endangered native fish programs of state of Arizona while at Arizona Game and Fish Department (avg. annual project budget $180,000) (USFWS, USFS, USBLM and other agencies)

09/01/82 – 12/31/84 $70,000 Aquatic Impacts Analysis. Sub contracted, two year (1983 84) research program investigating status of fisheries resources in Gila and San Francisco Rivers, New Mexico and Arizona, and potential impacts of proposed dams or other water supply modifications (U.S. Bureau of Reclamation/ S.W. Carothers Associates, Flagstaff, Arizona)

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Hendrickson, D. A. (1981). Preliminary observations on systematics of *Agosia chrysogaster*. Proc. DFC XIII.

Hendrickson, D. A. (1980). Notes on the distribution of introduced fishes in Pacific drainages of northwestern México. Proc. DFC 12.

Hendrickson, D. A. (1978). A survey of the Río Yaqui ichthyofauna. Proc. DFC 10.

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WEB SITES PUBLISHED AND MAINTAINED

Hendrickson Lab - https://sites.cns.utexas.edu/hendricksonlab/home
UT Biodiversity Center - Ichthyology Collection - https://biodiversity.utexas.edu/collections
Fishes of Texas – http://www.fishesoftexas.org
UT Waller Creek Working Group - https://sites.cns.utexas.edu/waller_creek_working_group/home
Desert Fishes Council – http://desertfishes.org (including all meeting and proceeding pages) – webmaster 1993-2012
Cuatro Ciénegas – http://desertfishes.org/cuatroc
Mexican trout – https://sites.cns.utexas.edu/hendricksonlab/mexican-trout-truchas-mexicanas

Hubbs Ichthyological Society - http://www.utexas.edu/tmm/tnhc/fish/hubbs/HIS/index.html

LANGUAGES

Fluent **English** and **Spanish** (written and spoken); read **Portuguese**.

SPECIAL SKILLS, HOBBIES

Certified Open Water SCUBA (1988 and 2000), CPR (Heart Saver, 1999, 2009) and Wilderness First Aid (1998). **Microcomputer applications** - MS-DOS/Windows/Linux, digital/analog automated data acquisition, hardware/mainframe interfacing, TCP/IP, extensive publication on WWW (html, xml, pdf, javascript, web database interfaces (MySQL)). Extensive **mainframe** and PC experience, especially with statistical packages (SAS, SPSS-X, BMDP). Vertical descent/ascent caving. Extensive experience with wide variety of fish sampling gears. Experienced whitewater rafter / kayaker / canoeist, including use of electrofishing gear from rafts & canoes. Hobbies - work, mountain biking, kayaking, wilderness hiking, fishing, kite flying, snorkeling and SCUBA.

FOREIGN TRAVEL

Countries listed were visited for > two weeks for research purposes (i.e. travel to international conferences or for vacation not included). Throughout travels I have attempted to visit institutions and laboratories conducting research on aquatic organisms or systems, and have attempted to spend time in each of the major aquatic and terrestrial habitat types available.

1978-present - Numerous (often 4-5 trips / year) extended research, collecting, project coordination, and annual class field trips throughout N. México (on average 1 month at least in México per year).

2008 & 2009 – taught **Field Ecology Research** class (UT undergraduates) at Lizard Island Research Station, QLD, Australia. 5 week class + 2-3 weeks travel throughout Queensland and NSW each year.

1995 - Southern Patagonia areas of Argentina & Chile - Consultation regarding rapid fish fauna inventory and management in National Parks and reserves in both countries.

1990 - Participation in International Symposium on Endangered Fishes of the World, Lancaster, England

1976-1978 – Lived in London, England (including 2 week working stay at Freshwater Biological Association, Windermere), Scotland, Wales, France, Belgium, Germany (East & West), Switzerland, Austria, Spain, Portugal, Italy, Soviet Union

1973-1976 – Lived in and travelled extensively in Colombia (including remote Amazonian and other rivers), with pleasure and work-related travel to Venezuela, Ecuador (including Galápagos), Peru, Dominican Republic, Haiti, Jamaica, Belize, Guatemala, México

OUTREACH

In addition to research and professional service, outreach consumes a significant portion of my time. The "Freshwater Fishes of Texas" project (website (http://www.fishesoftexas.org), book, museum exhibit) is a multi-authored (with Drs. Clark Hubbs, Gary Garrett, and Robert Edwards) compilation of fish occurrence databases and general information on the state's fishes. It will continue to be a major focus of my efforts for the next few years, with particular emphasis on a public and GK-12 adaption of it. A preliminary exhibit based on this project has been on display since 2005 in Texas Memorial Museum. The Desert Fishes Council and Texas Natural History Collection - Fish web pages that I created and maintain are extensively utilized worldwide by the general public and educators. I regularly lecture to a diversity of lay audiences, ranging from 4th grade to senior citizens, and to public service groups. I also consider my work with high school students through the Earthwatch Student Challenge Awards program (annual projects in México 1999-2003) to constitute outreach. I have published numerous articles (not listed above) on endangered fishes and habitats of the desert southwest in popular outlets, principally *Wildlife Views* (Arizona Game and Fish Department), and the newsletter of The Arizona Nature Conservancy. Some of my projects (e.g. Mexican blindcat) have been reported on by local (Austin, Texas) television, in popular children's magazines (e.g. Animalwatch, 1997, vol. 2, no. 2 - http://www.cuug.ab.ca:8001/~animal/), and on National Public Radio's Radio Expeditions program (http://www.npr.org/programs/re/index_cienegas.html).

REFERENCES

Provided on request.